

REPORT FOR CALENDAR YR 2003

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM **MA335J**

CURRENT INDUSTRIAL REPORTS

INSULATED WIRE AND CABLE
(Including Fiber Optics)

Annual Report

The 8-digit number that appears above indicates that the Office of Management and Budget has approved this survey. If that number is not displayed, do not complete this form. YOUR RESPONSE IS REQUIRED BY LAW (Title 13, United States Code). By section 9 of the same law, YOUR REPORT IS CONFIDENTIAL. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this establishment's report, please refer to the 11 digit Identification Number (ID)

If you have questions regarding this report form please contact:
STEPHANIE ANGEL EXT5
1(800)201-4647

EMPLOYER IDENTIFICATION (EI) NUMBER. Identification number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941) (Enter if not shown, correct if wrong.)

CONTACT PERSON (Enter information if not shown, correct if wrong.)
Name ATTN: CONTROLLER

Area code Number -

Fax number

(Please correct any error in name and address including ZIP Code)

PART I FOR EACH ITEM LISTED BELOW, ENTER FIGURES OR "0" for current period. (The figures shown in the shaded areas were reported for the previous two periods.) PLEASE REFER TO THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT FORM.

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs}	Interplant Aluminum content M lbs.	trans.}- Value \$1000	Interplant xfers Value \$1000		
SECTION I - ELECTRONIC WIRE & CABLE INCL. PRODUCTS FABRICATED FROM WIRE & CABLE {EXCL. FIBER OPTICS}			1	2	3	4	5	6
335929A100-Rigid coaxial cable, armored or nonarmored	2201	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A120-Semirigid coaxial cable, armored or nonarmored	2205	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A130-Flexible coaxial cable, 135 C & over, armored or nonarmored	2213	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		

* Figures not received when form was prepared. PLEASE ENTER, if not previously submitted.

CURRENT INDUSTRIAL REPORTS - Continued

2

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs	Interplant Aluminum content M lbs	trans.)- Value \$1000	Inter- plant xfers Value \$1000		
			1	2	3	4	5	6
335929A140-Flexible coaxial cable, under 135 C, armored or nonarmored	2221	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A150-CATV/Broadcast coaxial cable	2225	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A160-Antenna lead in wire	2240	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A170-Hook-up wire, 135 C & over temp. rating {single conductor, shielded & nonshielded}	2245	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A180-Hook-up wire under 135 C temp. rating, 16 AWG & smaller {single conductor shielded & nonshielded}	2250	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A190-Multiconductor flat & ribbon cable {shielded & nonshielded}	2253	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A1A0-Other multicon- ductor shielded cable, 135 C & over temp. rating	2255	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A1B0-Other multicon- ductor shielded cable, under 135 C temp. rating	2260	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A1C0-Other multicon- ductor nonshielded cable, 135 C & over temp. rating	2265	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929A1D0-Other multicon- ductor nonshielded cable, under 135 C temp. rating	2270	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		

CURRENT INDUSTRIAL REPORTS - Continued

3

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs	interplant Aluminum content M lbs	trans.)- Value \$1000	Inter- plant xfers Value \$1000		
X X X -Total electronic wire and cable {sum of codes 2201-2270}	2298	2003	1	2	3	4	5	6
		2002						
		2001						
Section II-TELEPHONE & TELEGRAPH WIRE & CABLE INCL. PRODUCTS FABRICATED FROM WIRE & CABLE {EXCL. FIBER OPTICS}								
335929B110-Jumper & distri- buting frame wire	2501	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929B120-Station wire & cable	2503	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929B130-Telephone cord sets & cordage	2507	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929B140-Inside wiring cable	2509	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929B150-Drop, bridle, & duct wire	2511	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929B160-Rural & urban distribution wire & cable	2515	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929B170-Polyethylene covered exchange area & toll cable, {PIC and PULP insulated}	2527	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
335929B180-Other telephone and telegraph wire and cable	2545	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		

CURRENT INDUSTRIAL REPORTS - Continued

4

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS & Cable	I-VIII- Total Shipments of Insulated Wire				
			-{Incl. Copper content M lbs	Interplant Aluminum content M lbs	trans.}- Value \$1000	Inter- plant xfers Value \$1000		
X X X -Total telephone and telegraph wire and cable {sum of codes 2501-2545}	2598	2003	1	2	3	4	5	6
		2002						
		2001						
Section III-POWER WIRE & CABLE {EXCL. FIBER OPTICS}								
3359291810-Paper insulated cable {all types, all voltages}	3201	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359291820-Portable welding cables, 2 KV or less, plastic & rubber insulated	3203	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359291830-Underground dis- tribution cable {UD, URD}, all insulations, 2 KV or less	3219	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359291840-Thermoplastic in- sulated power cable {exclude underground}, 2 KV or less	3231	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359291850-Armored, rubber & cross-linked, thermoset, insulated power cable	3233	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359291860-Unarmored, rubber {exclude single conductor UL labeled USE}, thermoset, in- sulated power cable	3235	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359291870-Unarmored, cross- linked, thermoset, insulate power cable	3245	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359291880-Rubber {R, RH, RHH, RHW} thermoset, insulated power cable	3246	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		

CURRENT INDUSTRIAL REPORTS - Continued

5

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs	Interplant Aluminum content M lbs	trans.)- Value \$1000	Inter- plant xfers Value \$1000		
3359291890-Weatherproof plastic and rubber insulated cable	3249	2003	1	2	3	4	5	6
		2002				XXXXX		
		2001				XXXXX		
3359291891-Service drop cable, thermoset and thermoplastic insulated	3257	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
33592918C0-Underground dis- tribution cable {UD, URD}, all insulations {jacketed & unjacketed} over 2 KV	3263	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
33592918D0-Thermoplastic in- sulated power cable {exclude underground}, over 2 KV	3265	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
33592918E0-Armored, rubber & x-linked {excl. underground}, thermoset insulated power cable, 2KV to 15KV	3267	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
33592918F0-Unarmored, rubber {exclude single conductor UL labeled USE} thermoset in- sulated pwr cable 2 to 15KV	3271	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
33592918G0-Unarmored, cross linked, {excl. underground}, thermoset insulated power cable 2 to 15 KV	3273	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
33592918H0-Over 15.1 KV, rubber & cross linked thermoset insulate power cable	3275	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
33592918I0-Other power wire and cable	3279	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
X X X -Total power wire and cable {sum of codes 3201- 3279}	3298	2003						
		2002						
		2001						

CURRENT INDUSTRIAL REPORTS - Continued

6

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS & Cable	I-VIII- Total Shipments of Insulated Wire , except magnet wire		Inter-plant xfers		5	6
			-{Incl. Copper content M lbs	interplant Aluminum content M lbs	trans.}- Value \$1000	Value \$1000			
Section IV-PORTABLE POWER CABLE			1	2	3	4			
33592918J0-2 KV or less portable cable	4011	2003							
		2002							
		2001							
33592918M0-Portable cross- linked and non-crosslinked cable - over 2 KV	4014	2003							
		2002							
		2001							
X X X -Total portable power cable {sum of codes 4011 & 4014}	4098	2003							
		2002							
		2001							
Section V-CONTROL AND SIGNAL WIRE AND CABLE									
335929C110-Signal wire and cable	4111	2003				XXXXX			
		2002				XXXXX			
		2001				XXXXX			
335929C120-Thermoset insul- ated control wire & cable {ex. elevator cable}	4115	2003				XXXXX			
		2002				XXXXX			
		2001				XXXXX			
335929C130-Thermoplastic in- sulated control wire & cable {ex. elevator cable}	4119	2003				XXXXX			
		2002				XXXXX			
		2001				XXXXX			
X X X -Total control and signal wire and cable {sum of codes 4111-4119}	4198	2003							
		2002							
		2001							
Section VI-BUILDING WIRE AND CABLE {EXCLUDE FIBER OPTICS}									

CURRENT INDUSTRIAL REPORTS - Continued

7

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs	Interplant Aluminum content M lbs	trans.}- Value \$1000	Inter- plant xfers Value \$1000		
3359290110-Cross-linked poly- ethylene {XHHW} thermoset insulated	4242	2003	1	2	3	4	5	6
		2002				XXXXX		
		2001				XXXXX		
3359290120-Cross-linked poly- ethylene {XLP, USE}, thermo set insulated	4244	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359290130-Flame-retardant nylon {THHN, THWN}, thermo- plastic insulated	4246	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359290140-Moisture & heat resistant {TW, THW}, thermoplastic insulated	4248	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359290150-Service entrance cable {SER, SEU, ASE}	4254	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359290160-Type NM-B-circuit building wire & cable	4256	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359290170-Type UF & NMC {corrosion resistant}, building wire & cable	4258	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359290181-Metallic armored cable {AC type}	4261	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359290183-Metallic armored cable {MC type}	4263	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
3359290190-Other building wire and cable	4264	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		

CURRENT INDUSTRIAL REPORTS - Continued

8

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs	interplant Aluminum content M lbs	trans.}- Value \$1000	Inter- plant xfers Value \$1000		
X X X -Total building wire and cable {sum of codes 4242-4264}	4298	2003	1	2	3	4	5	6
		2002						
		2001						
Section VII-APPARATUS WIRE & CORDAGE INCLUDING PRODUCTS FABRICATED FROM WIRE & CABLE EXCLUDE FIBER OPTICS								
331491E110-Thermoset insul- ated, flexible cordage	5221	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
331491E120-Thermoplastic {include thermoplastic elastomers} flexible cordage	5223	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
331491E180-Extension cord sets	5225	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
331491E190-Fixed power supply cords	5227	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
331491E1A0-Detachable power supply cords	5231	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
331491E1B0-Retractable power cords and other flexible cordage	5233	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
331491E130-Appliance fixture wire, apparatus wire	5235	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
331491E145-Thermoset and thermoplastic insulated appliance wiring material, 14 guage and larger	5240	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		

CURRENT INDUSTRIAL REPORTS - Continued

9

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS 1-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs	Interplant Aluminum content M lbs	trans.}- Value \$1000	Inter- plant xfers Value \$1000		
331491E160-Submersible pump cable, apparatus wire	5243	2003	1	2	3	4	5	6
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
331491E170-Other apparatus wire and cordage {include machine tool wire}	5247	2003		XXXXX		XXXXX		
		2002		XXXXX		XXXXX		
		2001		XXXXX		XXXXX		
X X X -Total apparatus wire and cordage {sum of codes 5221-5247}	5298	2003						
		2002						
		2001						
Section VIII-OTHER INSULATED WIRE & CABLE INCLUDING PRO- DUCTS FABRICATED FROM WIRE & CABLE {EXCLUDE FIBER OPTICS}								
335929E110-Bulk automotive primary wire	5310	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
335929E120-Bulk battery cable	5312	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
335929E130-Bulk ignition wire	5315	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
335929E140-Other automotive wire and cable	5318	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
335929E150-Airframe & missile cable {include ground support cable}	5324	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		
335929E160-Shipboard cable	5328	2003				XXXXX		
		2002				XXXXX		
		2001				XXXXX		

CURRENT INDUSTRIAL REPORTS - Continued

10

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			- {Incl. interplant trans.}-		Inter-plant xfers			
			Copper content M lbs	Aluminum content M lbs	Value \$1000	Value \$1000		
335929E170-Other insulated wire and cable, not else- where classified	5331	2003	1	2	3	4	5	6
		2002				XXXXX		
		2001				XXXXX		
X X X -Total other insulated wire and cable {sum of codes 5310-5331}	5398	2003						
		2002						
		2001						
			SECTION IX - Total Shipments of Magnet Wire					
			-- {Include Interplant Transfers} --		Interplant trans.			
			Copper M lbs gross wt	Aluminum Value \$1000	Copper M lbs gross wt	Aluminum Value \$1000	Copper M lbs gross wt	Aluminum M lbs gross wt
Section IX-MAGNET WIRE								
331491G110- 7 AWG & larger round {incl all square & rectangular} class 105 and below, film coated	6106	2003						
		2002						
		2001						
331491G120- 8-21 AWG, class 105 & below, film coated	6108	2003						
		2002						
		2001						
331491G130- 22-32 AWG, class 105 & below, film coated	6112	2003						
		2002						
		2001						
331491G140- 33 AWG and finer class 105 & below, film coated	6115	2003						
		2002						
		2001						
331491G150- 7 AWG & larger round, {incl all square & rectangular} class 130-155, film coated	6117	2003						
		2002						
		2001						

CURRENT INDUSTRIAL REPORTS - Continued

11

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTION IX - Total Shipments of Magnet Wire					
			--{Include Interplant Transfers}--		Interplant trans.			
			Copper M lbs gross wt.	Value \$1000	Aluminum M lbs gross wt.	Value \$1000	Copper M lbs gross wt.	Aluminum M lbs gross wt.
331491G160-8-21 AWG, class 130-155, film coated	6119	2003	1	2	3	4	5	6
		2002						
		2001						
331491G170- 22-32 AWG, class 130-155, film coated	6121	2003						
		2002						
		2001						
331491G180- 33 AWG & finer, class 130-155, film coated	6125	2003						
		2002						
		2001						
331491G190- 7 AWG & larger round, {incl. all square & rectang} class 180 & above, film coated	6130	2003						
		2002						
		2001						
331491G1A0- 8-21 AWG, class 180 & above, film coated	6133	2003						
		2002						
		2001						
331491G1B0- 22-32 AWG, class 180 & above, film coated	6154	2003						
		2002						
		2001						
331491G1C0- 33 AWG & finer, class 180 & above, film coated	6155	2003						
		2002						
		2001						
331491G1I0-Miscellaneous film coated, not elsewhere classified	6159	2003						
		2002						
		2001						
331491G1D0-Fibrous, class 130 & below, nonfilm coated	6168	2003						
		2002						
		2001						
331491G1E0-Tape, class 130 & below, nonfilm coated	6172	2003						
		2002						
		2001						

CURRENT INDUSTRIAL REPORTS - Continued

12

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTION IX - Total Shipments of Magnet Wire					
			--{Include Interplant Transfers}-- Copper		Aluminum		Interplant trans.	
			M lbs gross wt.	Value \$1000	M lbs gross wt.	Value \$1000	M lbs gross wt.	Aluminum M lbs gross wt.
331491G1F0-Fibrous, class 155 & above, nonfilm coated	6174	2003	1	2	3	4	5	6
		2002						
		2001						
331491G1G0-Tape, class 155 & above, nonfilm coated	6176	2003						
		2002						
		2001						
331491G1H0-Miscellaneous nonfilm coated, n.e.c., {include insulated magnet sheet, strip, & foil}	6188	2003						
		2002						
		2001						
X X X -Total magnet wire {sum of codes 6106 - 6188}	6199	2003						
		2002						
		2001						
			SECTION X - Total Shipments of Optical Fiber Cable					
			Qty cable Value					
			conductor of					
			kilometers cable					
			1000		\$1000			
Section X-OPTICAL FIBER CABLE								
3359210125-Dispersion shift- ed, single-mode stepped- index, communication applications	8101	2003						
		2002						
		2001						
3359210128-Dispersion un- shifted, single-mode stepped-index, communication applications	8102	2003						
		2002						
		2001						
3359210131-Multimode stepped- index, communication appli- cations	8110	2003						
		2002						
		2001						

CURRENT INDUSTRIAL REPORTS - Continued

13

PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTION X - Total Shipments of Optical Fiber Cable					
			Qty cable conductor kilometers 1000	Value of cable \$1000				
			1	2	3	4	5	6
3359210134-Multimode graded -index communication appli- cations	8111	2003						
		2002						
		2001						
3359210434-Other applications	8120	2003						
		2002						
		2001						
X X X -Total optical fiber cable - sum of codes 8101-8120	8199	2003						
		2002						
		2001						
			SECTION XI - Total Shipments of Optical Fiber					
				Value				
				\$1000				
Section XI- OPTICAL FIBER								
327215A235-Optical fiber used for data purposes	9101	2003	XXXXX		XXXXX			
		2002	XXXXX		XXXXX			
		2001	XXXXX		XXXXX			
327215A238-Optical fiber used for nondata purposes	9102	2003	XXXXX		XXXXX			
		2002	XXXXX		XXXXX			
		2001	XXXXX		XXXXX			

PART II Has there been any change in the ownership or operation of this establishment during this period? <input type="checkbox"/> Yes - Indicate type of change below. <input type="checkbox"/> No - Skip to Part III.			
	Name of company	Address (Number and street, city, State, ZIP Code)	Date of change
A. <input type="checkbox"/> Purchased from			
B. <input type="checkbox"/> Sold to			
C. <input type="checkbox"/> Plant discontinued all operations	Date		
D. <input type="checkbox"/> Plant operations no longer covered by this survey - Describe in "Remarks" the products currently produced.			
E. <input type="checkbox"/> Reorganized - Describe in "Remarks;" e.g., partnership change or change in corporate status.			

PART IV	
Remarks	

Signature of authorized official	Title	Date
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MA335J — INSULATED WIRE AND CABLE (SHIPMENTS)

DEFINITIONS AND SPECIAL INSTRUCTIONS

1. Scope of survey

This survey covers establishments manufacturing and fabricating insulated wire and cable and/or apparatus wire and cordage with a copper/copper clad or aluminum/-aluminum clad core. This survey also includes optical fiber cable.

2. Figures to be reported

We prefer that a separate report be filed for each establishment. However, if you wish, you may combine two or more establishments in a single report. If you do file a combined report, you should report transfers in between the various plants as interplant transfers in sections I–VIII. Such shipments should also be included, as provided below, in those data which represent "total shipments, including interplant transfers."

If you manufacture apparatus wire and cordage, you should report:

If you buy wire and insulate it and/or
If you buy wire already insulated,

You should report all shipments (including both domestic and export) of insulated or covered wire and cable for transmitting electrical energy, signals, or communication. Exclude bare and tinned wire and cable and ACSR.

Report interplant transfers for those shipments "shipped" for use by your own company, an affiliate, subsidiary, or parent company. The interplant transfer figure should also be included with "total shipments including interplant transfers."

Transfers to sales branch location should be excluded from interplant transfers but should be included in shipments to other companies.

Exclude resales — products bought and sold without further manufacture.

The value of the products shipped should be based on the net selling value, f.o.b. plant, after discounts and returns and allowances. Freight charges and excise taxes should be excluded.

Be sure to sum all of the items designated under the indicated product groups that you have reported. This total should agree with your shipments for that section. If your shipments are greater than the individual items you have reported, you may have omitted an item(s). If this is the case, please insert those items omitted. If, however, your shipments are less than the individual item reported, you may have double counted one or more items.

Item code	Product group
2298	Total electronic wire and cable
2598	Total telephone and telegraph wire and cable
3298	Total power cable
4098	Total portable power cable
4198	Total control and signal wire and cable
4298	Total building wire and cable
5298	Total apparatus wire and cable
5398	Total other wire and cable
6199	Total magnet wire
8199	Total optical fiber cable

3. Columnar structure of report

When posting your figures to the report, please be sure to report the information in the correct columns. These are:

SECTIONS I–VIII — INSULATED WIRE AND CABLE, OTHER THAN MAGNET WIRE AND OPTICAL FIBER CABLE

Column 1 — Copper content (excluding insulation) in thousands of pounds for total shipments, including interplant transfers

Column 2 — Aluminum content (excluding insulation) in thousands of pounds

For sections I, II, V, and VII, report quantity of aluminum content for:

- Item code 2298 — Total electronic wire and cable
- Item code 2598 — Total telephone and telegraph wire and cable
- Item code 4198 — Total control and signal wire and cable
- Item code 5298 — Total apparatus wire and cordage
- Metal content of "copper clad aluminum" should be reported in the aluminum column.

Column 3 — Value in thousands of dollars for total shipments, including interplant transfer

Column 4 — Value in thousands of dollars for interplant transfers, excluding shipments to sales branches (Total only)

SECTION IX — MAGNET WIRE (Item codes 6106–6199)

You should report products with thermal ratings falling between those listed in the report under the next lower rating, except that products with a thermal rating of less than 105 C should be included with 105 C products.

The U.S. Government specification for magnet wire, MW 1000, should be used as the guide for determining the thermal classification of magnet wire.

3. Columnar structure of report — Continued**SECTION IX - MAGNET WIRE** (Item codes 6106–6199)
— Continued

Column 1 — Quantity of copper wire in thousand pounds gross weight (including insulation) for total shipments including interplant transfers

Column 2 — Value of copper wire (including insulation) in thousands of dollars for total shipments including interplant transfers

Column 3 — Quantity of aluminum wire in thousand pounds gross weight (including insulation) for total shipments including interplant transfers

Column 4 — Value of aluminum wire (including insulation) in thousands of dollars for total shipments including interplant transfers

Column 5 — Quantity of copper wire in thousand pounds gross weight for interplant transfers, excluding shipments to sales branches

Column 6 — Quantity of aluminum wire in thousand pounds gross weight for interplant transfers, excluding shipments to sales branches

SECTION X — OPTICAL FIBER CABLE (Item codes 8101–8199)

This section provides for the collection of insulated optical fiber cable.

Column 1 — Quantity (Report thousands of Cable Conductor Kilometers (CCKM)).

Column 2 — Value (Report in thousands of dollars the value of optical fiber cable, including insulation).

SECTION XI — OPTICAL FIBER (Item codes 9101–9102)

This section provides for the collection of optical fiber.

Column 2 — Value (Report in thousands of dollars the value of optical fiber).

4. Definitions

INSULATED WIRE — A rod of drawn metal filament covered with insulation.

INSULATED CABLE — A number of conductors twisted or grouped together.

Dual rated products should be classified according to their higher ratings.

Multi-insulated cables should be classified according to their primary insulation, i.e., the layer of material designed to do the electrical insulating, usually the first layer of material applied over the conductor.

GROSS WEIGHT — Include insulating materials but exclude packaging materials.

INSULATION — A non-conductive material usually surrounding or separating two or more conductive materials.

THERMOPLASTIC — Insulation that will soften and distort from its formed shape by heating above a critical temperature peculiar to the material.

THERMOSETTING — Insulation that will not resoften or distort from its formed shape by heating until a destructive temperature is reached.

ARMOR — The outer layer of a cable applied for mechanical protection, usually consisting of a layer or layers of a metallic tape, braid, or several wires.

CROSS-LINKED — Intermolecular bonds produced between long chain molecules in a material to increase molecular size by chemical or electron bombardment, resulting in a change in physical properties in the material usually improved properties.

ELASTOMER — Any elastic rubber-like substance, such as natural or synthetic rubber; when stretched to twice its length will resume approximately the original shape.

JACKET — A covering put around an insulated conductor for the purpose of protection and/or resistance.

INSULATED WIRE AND CABLE — All insulated wire and cable for transmitting electrical energy, signals, or communications. Exclude bare and tinned wire and cable and ACSR.

ELECTRONIC WIRE AND CABLE — All single and multi-conductor wire and cable used for transmission, reception, or reproduction of electrical frequencies (16 gauge and smaller). Excludes telephone cable. See Apparatus Wire and Cordage for larger gauges.

SEMI-RIGID — A cable containing a flexible inner core and a relatively inflexible sheathing.

COAXIAL CABLE — Cable consisting of two or more cylindrical conductors with a common axis. The two conductors are separated by a dielectric for use as high frequency transmission lines and communication systems.

HOOKE-UP WIRE, SINGLE CONDUCTOR — Single conductor wire (16 AWG and smaller) used for internal equipment wiring.

4. Definitions — Continued

RIBBON CABLE — A cable consisting of two or more conductors laid parallel in one plane and held in place by the insulation or some other means.

MULTI-CONDUCTOR CABLE — More than one conductor within a single cable complex.

SHIELDED CABLE — Constructed so that substantially every point on the insulation is at ground potential or some pre-determined potential with respect to ground.

TELEPHONE WIRE AND CABLE — All wires and cables used in the telephone industry to transmit, receive, and monitor communications signals. Excludes coaxial and other electronic wire and cable.

DROP WIRE — Service drop from pole to subscribers house: parallel, twisted or dumbbell style.

BRIDLE WIRE — For connection of open wire and terminals or protectors and as apparatus leads.

TELEPHONE CORD SETS — Cut lengths of wire with terminals or connectors for use in telephone hand or head set applications and telephone line cords.

POWER CABLE (2kv or less) — Single and multi-conductor cable rated 2kv or less, sizes 14AWG and larger, insulated with thermosetting or thermoplastic insulation, and with or without a metallic armor overall.

Include

Airport lighting cable
 Bus drop cable
 Cathodic protection cable
 Network cable
 Oil tray cable
 Overhead line wire
 Pole and bracket cable
 Power tray cable
 Service drop and secondary cable (8AWG or larger)
 Submarine power cable (8AWG or larger)
 Submersible pump or water well cable (8AWG or larger)
 Weatherproof cable

Exclude

Insulated single conductor with UL label
 Secondary underground distribution cables
 Single conductor multiplexed or paralleled reported as 0–2kv BX and AC wire

POWER CABLE (2.1–15kv) — Single and multiconductor cable rated 2.1–1.5kv, in sizes 8AWG and larger, insulated with dielectric insulation, either thermosetting or thermo-

plastic, shielded or unshielded, jacketed or unjacketed and armored or unarmored.

Include

Aerial spacer cables
 Airport lighting cable
 Oil well cable — armored and unarmored
 Pole and bracket cable
 Power cable
 Street lighting cable
 Submarine power cable

Exclude

Portable power cables
 UD cables
 Mine power feeder cable

POWER CABLE (over 15kv) — Single and multi-conductor cable rated 15.1kv and over, in sizes 2AWG and larger, insulated with dielectric insulation, thermosetting, shielded or unshielded, jacketed or unjacketed and armored or unarmored.

Include

Power cable
 Submarine power cable

Exclude

Portable power cables
 UD cables
 Mine power feeder cable

POWER CABLE, UNDERGROUND CABLE (US) 0–2KV (UL listed, single conductor cable) — Single, multiplex, or paralleled solid dielectric insulated cable with or without concentric neutral (either thermosetting or thermoplastic insulation) rated 0–2kv and specifically used for residential and/or commercial underground services and/or feeders. Exclude single conductor UL labeled USE.

POWER CABLE, UNDERGROUND CABLE (US) OVER 2KV — Single, multiplex, or paralleled solid dielectric insulated cable with or without concentric neutral (either thermosetting or thermoplastic insulation) rated over 2kv and designated for use as a primary distribution cable in underground locations.

CONTROL AND SIGNAL WIRE AND CABLE — Any solid dielectric insulated (thermosetting or thermoplastic), jacketed or unjacketed cable, multi-conductor, rated 2500V or less, sized 22AWG through 9AWG, utilized to operate control valves and relays, or to implement or record an event (but does not supply the energy being controlled in the event); also utilized to actuate, power and control railroad signaling, warning or crossing protective devices; or utilized to actuate or control fire alarm circuits.

4. Definitions — Continued**CONTROL AND SIGNAL WIRE AND CABLE — Continued***Include*

- Signal cable — less than 16AWG or less than 2kv
- Control cable — 9AWG and smaller, 2kv or less than 300V
- Fire alarm cable
- Submarine control cable
- Instrumentation cable
- Railroad signal cable
- Traffic control and signal cable

PORTABLE CROSS LINKED JACKETED CABLE*Include*

- Shielded and non-shielded
- Round types: SO, W, G, PG, PCG, SH, AND SH-A, B, C, D, and GGC
- Types SO, SJO, AND SJO shielded and unshielded
- Twin or triple types W and G
- Locomotive gathering reel
- Battery
- Concentric
- Elevator control
- Grounding cable
- High tension
- Trolley bus
- Magnet crane
- Motor lead
- Power jumper
- Railway utility
- Sand cutter
- Train jumper

PORTABLE NON-CROSS LINKED JACKETED CABLE

— All portable cable not bearing UL flexible cord or appliance wiring material label. Include thermoplastic mining machine cable; thermoplastic and thermoset mine power feeder. Exclude welding cable.

BUILDING WIRE — All wire and cable (601 volts or less) used within structures for light and power for permanent installation. Includes service entrance cable.

APPARATUS WIRE AND CABLE — Insulated wire and cable used in connecting electrical apparatus to a power source, and appliance wiring material (22AWG and heavier including motor lead and transformer lead wire). See electronic wire and cable for appliance wiring material finer than 22AWG.

CORD SETS — Portable cords, fitted with any type of wiring device at one or both ends.

CORD — A small, flexible, multiple-conductor cable.

APPLIANCE WIRING MATERIAL — Insulated wire and cable intended for internal wiring of appliances and equipment.

FLEXIBLE CORDAGE (Flexible cord, portable cord, or appliance cord) — Cordage of two or more conductors, normally used for electrical and electronic appliances, tools, and business machines.

OTHER APPARATUS WIRE AND CORDAGE (Including machine tool wire) — Other types such as battery cable: non-transportation uses, defroster wire, and electric furnace cable.

OTHER WIRE AND CABLE — Includes bulk automotive battery and ignition wire, elevator hatch and traveling cable, weatherproof cable, and air-frame, shipboard, and ground support cable.

BULK AUTOMOTIVE PRIMARY WIRE — Used for low voltage lighting and control circuits, including wiring for automotive harnesses.

BULK BATTERY CABLE — Used for positive and negative cables, switch to starter cables.

BULK IGNITION WIRE — High tension (5mm or 7mm) shielded or unshielded for internal combustion engines.

BATTERY CABLE SETS — Cut lengths of wire with ends prepared for connection between automotive battery and starter, battery and battery, battery and ground or switch to starter.

MAGNET WIRE, including insulated magnet strip conductor — all insulated wire of the type generally used in the winding of coils, including Litz wire and including insulated magnet sheet, strip, and foil. The thermal classification for bondable wires should be determined by the underlying insulation. Also, the combination (film-fabric) product should be classified based on the insulation on the top side.

LITZ WIRE — Litz wire refers to multistrand construction of small gauge film insulated wire that is precision twisted. This construction minimizes the power loss related to the "skin effect" of current at radio frequencies.

OPTICAL FIBER — Optical fiber used for data purposes — A long thin strand of transparent glass, plastic or other materials usually consisting of a fiber optical core and a fiber optical cladding capable of conducting light along its axial length by internal reflection, used in the transmission of voice, video, and/or data information.

ALL GLASS OPTICAL FIBER (single mode) — An optical fiber consisting of a glass core and glass cladding that supports the propagation of only one mode, or ray, of light at a time.

ALL GLASS FIBER (multimode) — An optical fiber consisting of a glass core and a glass cladding that supports the propagation of more than one mode, or ray, of light at a time.

PLASTIC CLAD GLASS FIBER — An optical fiber with a glass core and a plastic optical cladding.

4. Definitions — Continued**OPTICAL FIBER — Continued**

ALL PLASTIC OPTICAL FIBER — An optical fiber consisting of a plastic optical core and a plastic optical cladding.

NONCOHERENT BUNDLE — A collection of optical fibers arranged randomly for the purpose of transmitting light but not images.

COHERENT BUNDLE — A collection of optical fibers arranged non-randomly to permit the transmission of images, excluding faceplates and sensors.

FACEPLATE — A fused coherent bundle used for the transmission of images over a short distance, excluding sensors.

SENSORS — Optical fibers used in apparatus designed to detect or sense environmental effects such as pressure, temperature, magnetic, electric fields, rotation, etc.

4. Abbreviations

C	Centigrade
AWG	American wire gauge
UD	Underground distribution
URD	Underground residential distribution
UL	Underwriters laboratory
USE	Underground service entrance cable, 75 c wet location
KV	Kilovolt (1000 volts)
R	Rubber insulated
RH	Rubber insulated, heat resistant cable, 75 c dry location
RHH	Rubber insulated, heat resistant cable, 90 c dry locations
RHW	Rubber insulated, heat and moisture resistant, 75 c dry and wet locations
XHHW	Cross-linked polyethylene insulated, 90 c dry location, 75 c wet location
THHN	Thermoplastic insulated, high heat resistant, nylon jacketed cable, 90 c dry location.
THWN	Thermoplastic insulated, heat and moisture resistant, nylon jacket cable, 75 c dry and wet location
TW	Thermoplastic insulated, moisture resistant cable, 60 c wet or dry location
THW	Thermoplastic insulated, heat and moisture resistant cable, 75 c dry and wet location

SER	Round service entrance cable (rubber)
SEU	Service entrance cable (unarmored)
SEA	Service entrance cable (armored)
NM	Designation for nonmetallic sheathed cable, building wire
NMC	Nonmetallic sheathed cable, corrosion resistant, 60 c wet or dry location
UF	Underground feeder cable, thermoplastic insulated, 60 c wet or dry location
AC	Alternating current
MI	Mineral insulated 85 c dry and wet location, 250 c special application
PIC	Thermoplastic insulated
PULP	Paper and pulp insulated

4. Comparability

If you also report in the Annual Survey of Manufactures (Form MA-10000), the sum of values for item codes shown in column (a) should correspond to the dollar values reported under product class codes indicated in column (b) below:

Current Industrial Report (Form MA335J)	Annual Survey of Manufactures
Item codes (a)	Product class codes (b)
2201 through 2270	335929A 100
2501 through 2545	335929B 100
3201 through 4014	335929I 100
4111 through 4119	335929C 100
4242 through 4264	335929D 100
5221 through 5247	331491E 100
5310 through 5331	335929E 100
¹ 6106 through 6188	331491G 100
8101 through 8111	3359210 100
8120	3359210 100
9101 through 9102	327215A 100

¹ For these item codes sum of columns 2 and 4

REFERENCE LIST

FORM **MA335J**

INSULATED WIRE AND CABLE (SHIPMENTS)

Product code	Item code	Item description
335929A1		Section I — ELECTRONIC WIRE AND CABLE, INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (Exclude fiber optics)
		Electronic coaxial cable, armored or nonarmored
335929A100	2201	Rigid
335929A120	2205	Semirigid
		Flexible
335929A130	2213	135 C and over
335929A140	2221	Under 135 C
335929A150	2225	CATV/Broadcast coaxial cable
335929A160	2240	Antenna lead-in wire
		Hook-up wire, (single conductor, shielded and nonshielded)
335929A170	2245	135 C and over temperature rating
335929A180	2250	Under 135 C temperature rating, 16AWG and smaller
		Multiconductor electronic wire and cable (shielded and unshielded)
335929A190	2253	Flat and ribbon cable
		Other multiconductor electronic wire and cable
		Shielded
335929A1A0	2255	135 C and over temperature rating
335929A1B0	2260	Under 135 C temperature rating
		Nonshielded
335929A1C0	2265	135 C and over temperature rating
335929A1D0	2270	Under 135 C temperature rating
XXX	2298	Total electronic wire and cable (Sum of item codes 2201–2270)
335929B1		Section II — TELEPHONE AND TELEGRAPH WIRE AND CABLE, INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (Exclude fiber optics)
335929B110	2501	Jumper and distributing frame wire
335929B120	2503	Station wire and cable
335929B130	2507	Telephone cord sets and cordage
335929B140	2509	Inside wiring cable
335929B150	2511	Drop and bridle and duct wire
335929B160	2515	Rural and urban distribution wire and cable
335929B170	2527	Polyethylene covered exchange area and toll cable (PIC and PULP insulated)
335929B180	2545	Other telephone and telegraph wire and cable
XXX	2598	Total telephone and telegraph wire and cable (Sum of item codes 2501–2545)

REFERENCE LIST — Continued

FORM MA335J		
Product code	Item code	Item description
33592918		Section III — POWER WIRE AND CABLE (Exclude fiber optics)
3359291810	3201	Paper insulated cable (all types, all voltages) Plastic and rubber insulated 2KV or less
3359291820	3203	Portable welding cable
3359291830	3219	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed, excluding single conductor UL labeled USE)
3359291840	3231	Thermoplastic insulated power cable (exclude underground) Thermoset, insulated power cable (exclude underground)
3359291850	3233	Armored, rubber and cross linked
3359291860	3235	Unarmored, rubber (exclude single conductor UL labeled USE)
3359291870	3245	Unarmored, cross linked
3359291880	3246	Rubber (R, RH, RHH, RHW)
3359291890	3249	Weatherproof cable
3359291891	3257	Service drop cable, thermoset and thermoplastic insulated
33592918C0	3263	Over 2KV Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed)
33592918D0	3265	Thermoplastic insulated power cable (exclude underground) Thermoset, insulated power cable (exclude underground)
33592918E0	3267	2KV to 15KV Armored, rubber and cross linked
33592918F0	3271	Unarmored, rubber (exclude single conductor UL labeled USE)
33592918G0	3273	Unarmored, cross linked
33592918H0	3275	Over 15.1KV, rubber and cross linked
33592918I0	3279	Other power wire and cable
XXX	3298	Total power wire and cable (Sum of item codes 3201–3279)
		Section IV — PORTABLE POWER CABLE
33592918J0	4011	2KV or less portable cable
33592918M0	4014	Over 2KV portable crosslinked and non-crosslinked
XXX	4098	Total portable power cable (Sum of item codes 4011 and 4014)
335929C1		Section V — CONTROL AND SIGNAL WIRE AND CABLE (Exclude fiber optics)
335929C110	4111	Signal wire and cable Control wire and cable (exclude elevator cable)
335929C120	4115	Thermoset insulated
335929C130	4119	Thermoplastic insulated
XXX	4198	Total control and signal wire and cable (Sum of item codes 4111–4119)

REFERENCE LIST — Continued

FORM MA335J		
Product code	Item code	Item description
335929D1		Section VI — BUILDING WIRE AND CABLE (<i>Exclude fiber optics</i>)
		Building wire and cable
		Thermoset insulated
335929D110	4242	Cross-linked polyethylene (XHHW)
335929D120	4244	Cross-linked polyethylene (XLP, USE)
		Thermoplastic insulated
335929D130	4246	Flame-retardant nylon (THHN, THWN)
335929D140	4248	Moisture and heat resistant (TW, THW)
335929D150	4254	Service entrance cable (SER, SEU, ASE)
		Non-metallic branch-circuit and underground feeder
335929D160	4256	Type NM-B
335929D170	4258	Type US and NMC (corrosion resistant)
335929D181	4261	Metallic armored cable (AC type)
335929D183	4263	Metallic armored cable (MC type)
335929D190	4264	Other building wire and cable
XXX	4298	Total building wire and cable (<i>Sum of item codes 4242–4264</i>)
331491E1		Section VII — APPARATUS WIRE AND CORDAGE INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (<i>Exclude fiber optics</i>)
		Flexible cordage
331491E110	5221	Thermostat insulated
331491E120	5223	Thermoplastic (include thermoplastic elastomers)
331491E180	5225	Extension cord sets
331491E190	5227	Fixed power supply cords
331491E1A0	5231	Detachable power supply cords
331491E1B0	5233	Retractable power supply cords
		Apparatus wire
331491E130	5235	Appliance fixture wire
331491E145	5240	Appliance wiring material 14 gauge and larger (include motor lead and transformer lead wire), thermoset and thermoplastic insulated
331491E160	5243	Submersible pump cable
331491E170	5247	Other apparatus wire and cordage (include machine tool wire)
XXX	5298	Total apparatus wire and cordage (<i>Sum of item codes 5221–5247</i>)
335929E1		Section VIII — OTHER INSULATED WIRE AND CABLE INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (<i>Exclude fiber optics</i>) (<i>Exclude appliance wire and cord and flexible cord sets, ignition harness sets, cable sets, etc.</i>)
		Automotive
335929E110	5310	Bulk automotive primary wire
335929E120	5312	Bulk battery cable
335929E130	5315	Bulk ignition wire
335929E140	5318	Other automotive wire and cable
		Airframe, shipboard, and ground support cable (exclude coaxial cable and ignition cable)
335929E150	5324	Airframe and missile (include ground support cable)
335929E160	5328	Shipboard cable
335929E170	5331	Other insulated or covered wire and cable, not elsewhere classified
XXX	5398	Total other insulated or covered wire and cable (<i>Sum of item codes 5310–5331</i>)

REFERENCE LIST — Continued

FORM MA335J		
Product code	Item code	Item description
331491G1		Section IX — MAGNET WIRE <i>(Include insulated magnet sheet, strip, and foil but exclude fiber optics)</i>
		Film coated (Report products with thermal rating between classes in the next lower class)
		Class 105 and below
331491G110	6106	7AWG and larger round (include all square and rectangular)
331491G120	6108	8–21AWG
331491G130	6112	22–32AWG
331491G140	6115	33AWG and finer
		Class 130–155
331491G150	6117	7AWG and larger round (include all square and rectangular)
331491G160	6119	8–21AWG
331491G170	6121	22–32AWG
331491G180	6125	33AWG and finer
		Class 180 and above
331491G190	6130	7AWG and larger round (include all square and rectangular)
331491G1A0	6133	8–21AWG
331491G1B0	6154	22–32AWG
331491G1C0	6155	33AWG and finer
331491G1I0	6159	Miscellaneous film coated, not elsewhere classified
		Nonfilm coated
		Class 130 and below
331491G1D0	6168	Fibrous
331491G1E0	6172	Tape
		Class 155 and above
331491G1F0	6174	Fibrous
331491G1G0	6176	Tape
331491G1H0	6188	Miscellaneous non-film coated, not elsewhere classified, (include insulated magnet sheet, strip, and foil)
XXX	6199	Total magnet wire <i>(Sum of item codes 6106–6188)</i>
33592101		Section X — OPTICAL FIBER CABLE
		Communication applications
		Single-mode stepped-index
3359210125	8101	Dispersion shifted
3359210128	8102	Dispersion unshifted
3359210131	8110	Multimode stepped-index
3359210134	8111	Multimode graded-index
3359210434	8120	Other applications
XXX	8199	Total optical fiber cable <i>(Sum of item codes 8101–8120)</i>
327215A2		Section XI — OPTICAL CABLE
327215A235	9101	Optical fiber used for data purposes
327215A238	9102	Optical fiber used for nondata purposes